

ABB BALDOR RELIANCE III

Customer information packet

WDM3558TP

2HP, 1710RPM, 3PH, 60HZ, 145T, 3528M, TEFC, F3

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	145T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.750 A @ 460.0 V 5.500 A @ 230.0 V 6.000 A @ 208.0 V
Design Code	D
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.8 a

Part Detail

Revision	G
Type	AC
Mech. spec.	35E2679
Base	
Status	PRD/A
Elec. spec.	35WGG501
Layout	35LYE2679
Eff. date	01-15-2026
CD Diagram	CD0005
Poles	04
Leads	9#18 Y
Proprietary	False
Created date	07-05-2022

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528M
Mounting Arrangement	F3
Number of Poles	4
Overall Length	14.16 IN
Power Factor	82
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1710 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1496L											
CAT.NO.	WDM3558TP										
SPEC.	35E2679G501G1										
HP	2										
VOLTS	230/460										
AMP	5.5/2.75										
RPM	1710										
FRAME	145T		HZ	60				PH	3		
SER.F.	1.15	CODE	H	DES	D	CLASS		H			
NEMA-NOM-EFF	82.5	PF	82								
RATING	40C AMB-CONT										
CC											
DE	6205		ODE	6203							
ENCL	TEFC	SN									
	SFA 6.2/3.1										

AC Induction Motor Performance Data

Record # 95046

Typical performance - not guaranteed values

Winding: 35WGG501-R001			Type: 3528M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		2	Full Load Torque		6.15 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		5.5/2.75	Breakdown Torque		20.4 LB-FT	
R.P.M.		1710	Pull-up Torque		16 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	18 LB-FT	
NEMA Design Code	D	KVA Code	H	Starting Current	17.8 A	
Service Factor (S.F.)		1.15	No-load Current		1.36 A	
NEMA Nom. Eff.	82.5	Power Factor	82	Line-line Res. @ 25°C	10.1 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		65°C	
S.F. Amps		6.2/3.1	Temp. Rise @ S.F. Load		81°C	
			Locked-rotor Power Factor		61.5	
			Rotor inertia		0.202 lb-ft²	

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	40	62	74	81	85	87	84
Efficiency	80.2	85.8	86	84.4	81.9	78.7	82.4
Speed	1781	1761	1738	1712	1681	1644	1682
Line amperes	1.47	1.77	2.21	2.74	3.37	4.12	3.12

ABB Motors and Mechanical Inc.

WINDING # 35WGG501

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1710 RPM 460 V 3528M

TORQUES (LB-FT): PO=20.4 PU=16 LR=18 LRA=17.8





